



NAMIBIA

100th

Namibia ranks 100th among the 132 economies featured in the GII 2021.

The Global Innovation Index (GII) ranks world economies according to their innovation capabilities. Consisting of roughly 80 indicators, grouped into innovation inputs and outputs, the GII aims to capture the multi-dimensional facets of innovation.

The following table shows the rankings of Namibia over the past three years, noting that data availability and changes to the GII model framework influence year-on-year comparisons of the GII rankings. The statistical confidence interval for the ranking of Namibia in the GII 2021 is between ranks 96 and 106.

Rankings for Namibia (2019–2021)

	GII	Innovation inputs	Innovation outputs
2021	100	88	110
2020	104	101	104
2019	101	99	103

- Namibia performs better in innovation inputs than innovation outputs in 2021.
- This year Namibia ranks 88th in innovation inputs, higher than both 2020 and 2019.
- As for innovation outputs, Namibia ranks 110th. This position is lower than both 2020 and 2019.

32nd

Namibia ranks 32nd among the 34 upper middle-income group economies.

6th

Namibia ranks 6th among the 27 economies in Sub-Saharan Africa.

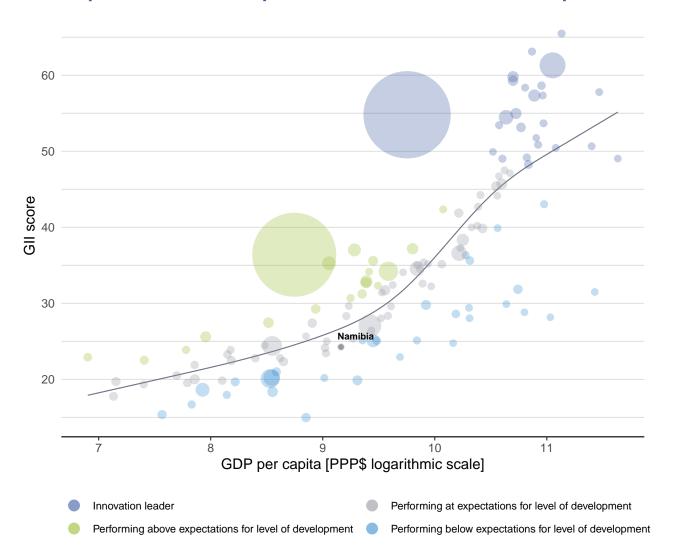




The bubble chart below shows the relationship between income levels (GDP per capita) and innovation performance (GII score). The trend line gives an indication of the expected innovation performance according to income level. Economies appearing above the trend line are performing better than expected and those below are performing below expectations.

Relative to GDP, Namibia's performance is at expectations for its level of development.

The positive relationship between innovation and development



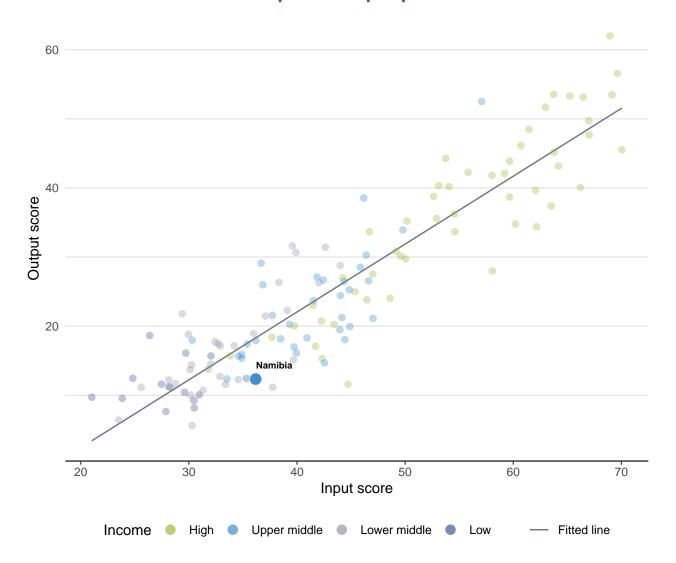




The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

Namibia produces less innovation outputs relative to its level of innovation investments.

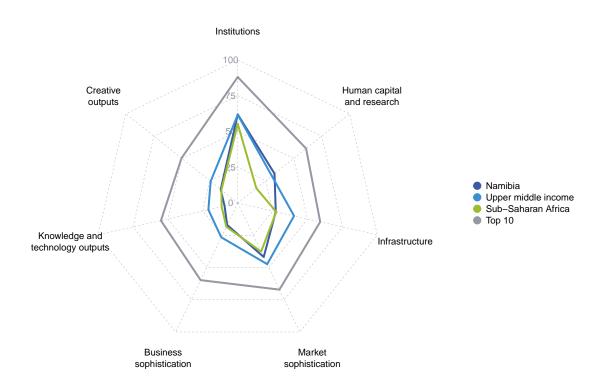
Innovation input to output performance





BENCHMARKING AGAINST OTHER UPPER MIDDLE-INCOME GROUP ECONOMIES AND SUB-SAHARAN AFRICA

The seven GII pillar scores for Namibia



Upper middle-income group economies

Namibia performs above the upper middle-income group average in two pillars, namely: Institutions; and, Human capital and research.

Sub-Saharan Africa

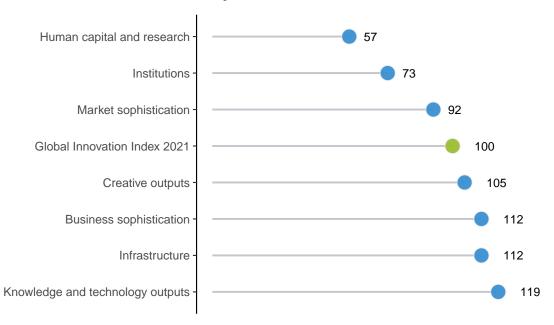
Namibia performs above the regional average in four pillars, namely: Institutions; Human capital and research; Market sophistication; and, Creative outputs.





Namibia performs best in Human capital and research and its weakest performance is in Knowledge and technology outputs.

The seven GII pillar ranks for Namibia



Note: The highest possible ranking in each pillar is one.





The table below gives an overview of the strengths and weaknesses of Namibia in the GII 2021.

Strengths and weaknesses for Namibia

Strengths			Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank	
1.2	Regulatory environment	43	1.3	Business environment	120	
1.2.2	Rule of law	50	1.3.1	Ease of starting a business	120	
1.2.3	Cost of redudancy dismissal	28	2.2.2	Graduates in science and engineering, %	101	
2.1.1	Expenditure on education, % GDP	1	2.3.3	Global corporate R&D investors, top 3, mn US\$	41	
2.2.3	Tertiary inbound mobility, %	39	2.3.4	QS university ranking, top 3	74	
3.3.1	GDP/unit of energy use	42	3.2	General infrastructure	129	
4.1.2	Domestic credit to private sector, % GDP	45	3.2.3	Gross capital formation, % GDP	117	
4.3.1	Applied tariff rate, weighted avg., %	13	4.3.3	Domestic market scale, bn PPP\$	126	
7.1.3	Industrial designs by origin/bn PPP\$ GDP	36	5.3	Knowledge absorption	120	
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69	42	5.3.1	Intellectual property payments, % total trade	115	
7.3.4	Mobile app creation/bn PPP\$ GDP	34	6.2	Knowledge impact	120	
			6.2.1	Labor productivity growth, %	113	
			6.2.5	High-tech manufacturing, %	100	
			6.3.4	ICT services exports, % total trade	124	
			7.1.2	Global brand value, top 5,000, % GDP	80	

GII 2021 rank

Namibia

Output rank Input rank

100

GII 2020 rank

≘ Institution		0 /						
nstitution		Score/					Score/	
<u>III</u> Institution		Value					Value	
	S	61.9	73		Business sophist	ication	17.0	112
1.1 Political envi		59.0	61 54	5.1	Knowledge workers	mpleyment 0/	17.3	
I.1.1 Political and c I.1.2 Government e	perational stability* effectiveness*	71.4 52.8	66	5.1.1 5.1.2	Knowledge-intensive e Firms offering formal tr			87 62
1.2 Regulatory e	nvironment	72.2	43 ●		GERD performed by b	•		77
I.2.1 Regulatory qu I.2.2 Rule of law*	ıality*	40.7 54.9	77 50 ● ◆	E 1 E	GERD financed by bus Females employed w/a			75 85
.2.3 Cost of redun	dancy dismissal	9.7	28	5.2	Innovation linkages	•	19.1	74
.3 Business en			120 🔾	522	University-industry R& State of cluster develop		42.8 44.6	64 79
.3.1 Ease of startir .3.2 Ease of resolv		72.2 36.9	120 O O		GERD financed by abr	•		49
.o.z Lasc of resolv	ang madivency	00.5	105	5.2.4		alliance deals/bn PPP\$ GDP	0.0 0.1	50 55
🎎 Human ca	pital and research	32.9	57	5.2.5 5.3	Patent families/bn PPF Knowledge absorption		14.6	
2.1 Education		82.5	[1]		Intellectual property pa		0.0	115 0
	n education, % GDP	Ø 8.3	1 • •		High-tech imports, % t		7.4	71
.1.2 Government for .1.3 School life exp	unding/pupil, secondary, % GDP/ca	p n/a n/a	n/a n/a		ICT services imports, 9 FDI net inflows, % GDI		0.6 0.8	98 109
	reading, maths and science	n/a	n/a	5.3.5	Research talent, % in I	ousinesses	6.9	67
.1.5 Pupil-teacher	·	Ø 25.9	106 ♦		K l l	ta ale a da ser a colonda.	0.4	110
.2 Tertiary educe .2.1 Tertiary enrol		14.0 24.1	104 0	_	Knowledge and	technology outputs	9.4	119
	science and engineering, %	12.9	101 0 0	6.1	Knowledge creation	DD\$ 0DD	7.9	89
2.2.3 Tertiary inbou	nd mobility, %	Ø 6.1	39 ●	6.1.1 61.2	Patents by origin/bn Pl PCT patents by origin/		0.4 0.2	84 49
.3 Research an.3.1 Researchers,	d development (R&D)	2.1 ② 149.5	92 83 <	6.1.3	Utility models by origin	/bn PPP\$ GDP	0.3	43
	liture on R&D, % GDP	② 0.4	75	0.1.4	Scientific and technica Citable documents H-i	l articles/bn PPP\$ GDP	12.0 4.9	71 107
•	ate R&D investors, top 3, mn US\$	0.0	41 0 0	6.0	Knowledge impact	nuex	13.0	
2.3.4 QS university	ranking, top 3"	0.0	74 🔾 🔾	6.2.1	Labor productivity gro		-3.1	113 🔾
ප ් Infrastruct	ture	27.2	112 0		New businesses/th po Software spending, %		1.2 0.1	79 88
"	d communication technologies (ICTs	s) 46.0	98 🔾	6.2.4	ISO 9001 quality certifi	cates/bn PPP\$ GDP	1.7	92
3.1.1 ICT access*	acommunication technologies (ions	46.0	96 ♦	0.2.5	High-tech manufacturi	•		100 🔾
.1.2 ICT use*		35.8		621	Knowledge diffusion Intellectual property re		7.4 0.0	105 94
3.1.3 Government's 3.1.4 E-participatio		52.3 50.0	99 \(\)	6.3.2	Production and export	complexity	33.9	80
3.2 General infra	structure	9.7	129 🔾 🔾		High-tech exports, % t ICT services exports, 9		0.9 0.2	73 124 ()
3.2.1 Electricity out		488.6	108 ¢	·			0.2	.2.0
3.2.2 Logistics perf 3.2.3 Gross capital		n/a 14.6	n/a 117 ⊝ ◊	€ ,	Creative outputs		15.2	105
3.3 Ecological s	ustainability	26.0	78	7.1	Intangible assets		19.6	101
.3.1 GDP/unit of el.3.2 Environmenta		12.5 40.2	42 ● 88 ♢	7.1.1	Trademarks by origin/b		18.9	94
	ironmental certificates/bn PPP\$ GDI		76	7.1.2	Global brand value, top Industrial designs by o		0.0 3.1	80 ○ 36 ●
					ICTs and organizationa		46.7	95
Market so	phistication	41.8	92	7.2	Creative goods and s			[115]
.1 Credit		35.6	85	7.2.1 7.2.2	Cultural and creative ser National feature films/r	rvices exports, % total trade @ nn pop. 15–69	0.1 n/a	90 n/a
.1.1 Ease of gettin		60.0	74 45 •	7.2.3	Entertainment and me	dia market/th pop. 15-69	n/a	n/a
	dit to private sector, % GDP gross loans, % GDP	72.0 ② 0.0	45 ● 65		Printing and other med Creative goods exports		n/a 0.2	n/a 77
.2 Investment	<u> </u>	31.5		7.2.5 7.3	Online creativity	5, 70 IOIAI II AUC	19.4	58
	cting minority investors*	56.0	82	7.3.1	Generic top-level dom	ains (TLDs)/th pop. 15-69	8.9	42 ●
.2.2 Market capita.2.3 Venture capita	lization, % GDP al investors, deals/bn PPP\$ GDP	20.8 n/a	58 n/a		Country-code TLDs/th Wikipedia edits/mn po		0.9 52.6	90 62
	al recipients, deals/bn PPP\$ GDP	n/a	n/a		Mobile app creation/bi		15.0	62 34 ●
•	ification, and market scale	58.4	99					
I.3.1 Applied tariff I.3.2 Domestic indu	rate, weighted avg., % ustry diversification	1.1 ② 68.7	13 ● 99 ◇	>				
I.3.3 Domestic mar			126 0 0					

Region

Income

Population (mn)

GDP, PPP\$ (bn)

GDP per capita, PPP\$

NOTES: • indicates a strength; \bigcirc a weakness; • an income group strength; \bigcirc an income group weakness; * an index; † a survey question. \bigcirc indicates that the economy's data are older than the base year; see Appendix IV for details, including the year of the data, at http://globalinnovationindex.org. Square brackets [] indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.





The following tables list data that are either missing or outdated for Namibia.

Missing data for Namibia

Code	Indicator name	Economy year	Model year	Source
2.1.2	Government funding/pupil, secondary, % GDP/cap	n/a	2017	UNESCO Institute for Statistics
2.1.3	School life expectancy, years	n/a	2018	UNESCO Institute for Statistics
2.1.4	PISA scales in reading, maths and science	n/a	2018	OECD Programme for International Student Assessment (PISA)
3.2.2	Logistics performance	n/a	2018	World Bank
4.2.3	Venture capital investors, deals/bn PPP\$ GDP	n/a	2020	Refinitiv Eikon
4.2.4	Venture capital recipients, deals/bn PPP\$ GDP	n/a	2020	Refinitiv Eikon
7.2.2	National feature films/mn pop. 15–69	n/a	2017	UNESCO Institute for Statistics
7.2.3	Entertainment and media market/th pop. 15-69	n/a	2020	PwC
7.2.4	Printing and other media, % manufacturing	n/a	2018	United Nations Industrial Development Organization

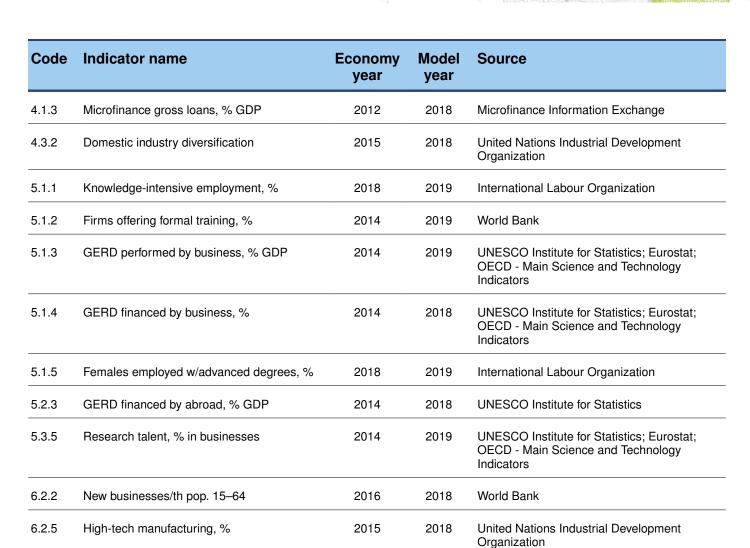
Outdated data for Namibia

Code	Indicator name	Economy year	Model year	Source
2.1.1	Expenditure on education, % GDP	2010	2017	UNESCO Institute for Statistics
2.1.5	Pupil-teacher ratio, secondary	2017	2019	UNESCO Institute for Statistics
2.2.3	Tertiary inbound mobility, %	2017	2018	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	2014	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	2014	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators



7.2.1

Cultural and creative services exports, % total



2018

2019

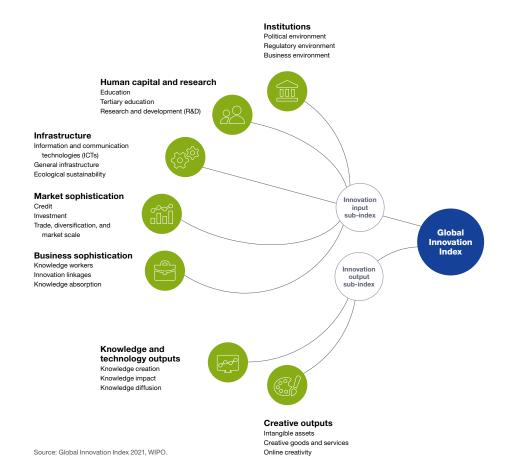
World Trade Organization





The Global Innovation Index (GII) is published by the World Intellectual Property Organization (WIPO), a specialized agency of the United Nations.

Recognizing that innovation is a key driver of economic development, the GII aims to provide an innovation ranking and rich analysis referencing around 130 economies. Over the last decade, the GII has established itself as both a leading reference on innovation and a "tool for action" for economies that incorporate the GII into their innovation agendas.



The Index is a ranking of the innovation capabilities and results of world economies. It measures innovation based on criteria that include institutions, human capital and research, infrastructure, credit, investment, linkages; the creation, absorption and diffusion of knowledge; and creative outputs.

The GII has two sub-indices: the Innovation Input Sub-Index and the Innovation Output Sub-Index, and seven pillars, each consisting of three sub-pillars.